

Fig. 1

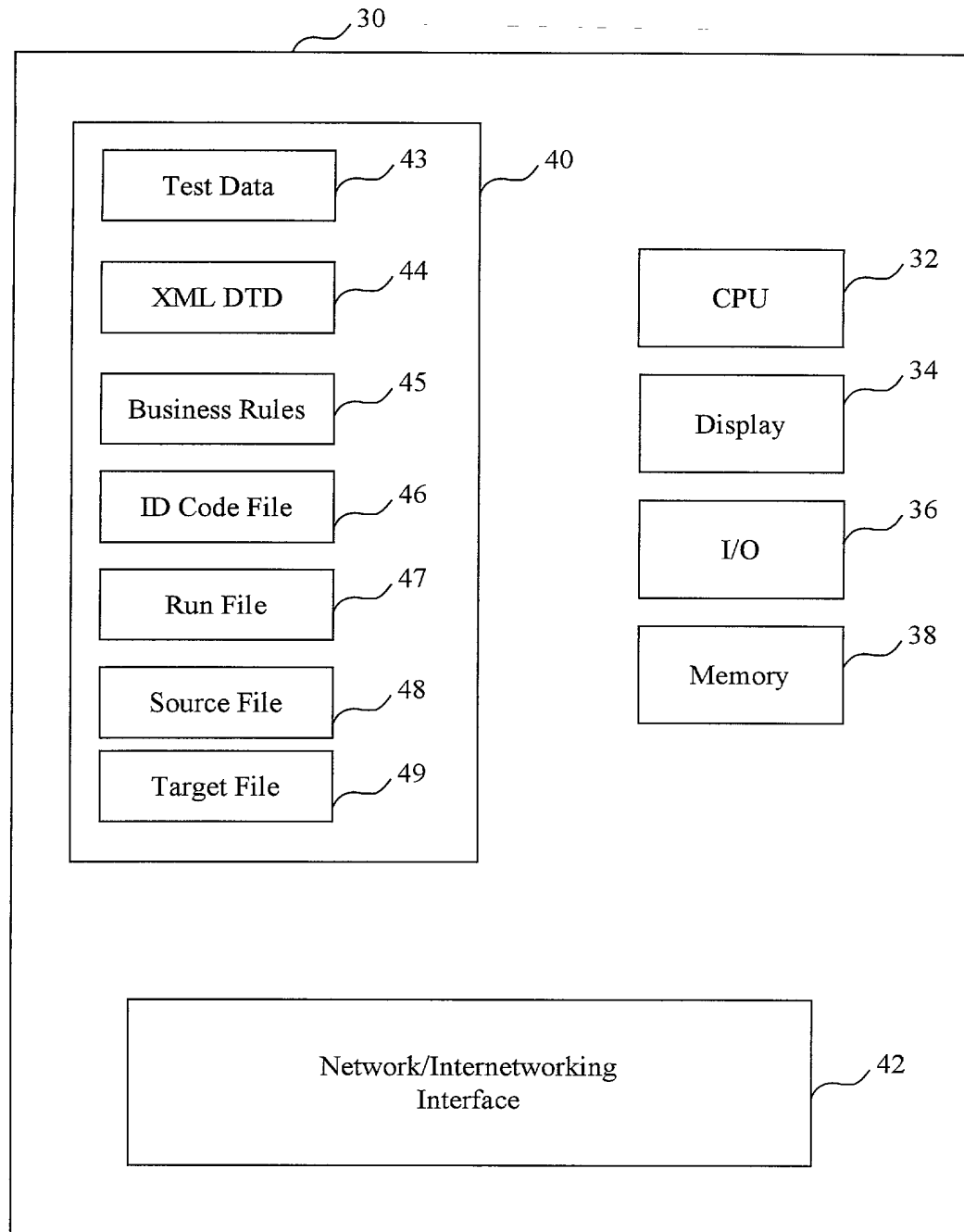


Fig. 2

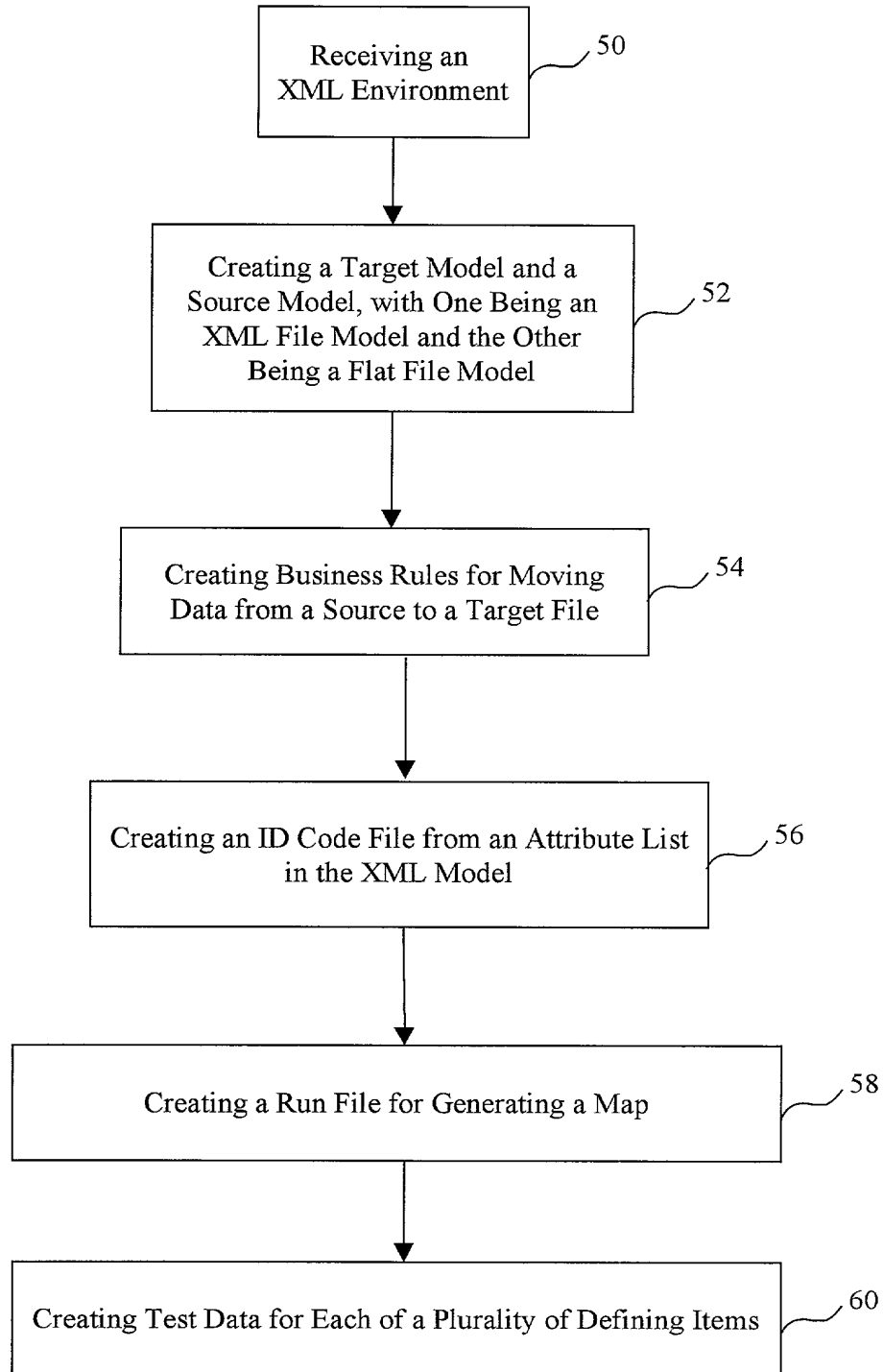


Fig. 3

Fig. 4A

Fig. 4B

This is a sample of the XML document that follows the DTD

```
<?XML Version="1.0"?>
<PurchaseOrder>
  <HeaderInformation>
    <CompanyName>ACME Distributing</CompanyName>
    <CompanyAddress>123 Main Street</CompanyAddress>
    <CompanyCity>Washington</CompanyCity>
    <CompanyState>DC</CompanyState>
    <CompanyZip>20202</CompanyZip>
    <PurchaseOrderNumber>27015219</ PurchaseOrderNumber >
    <PurchaseOrderDate>08171999</ PurchaseOrderDate >
  </HeaderInformation>
  <DetailInformation>
    <LineItem>
      <LineNumber>1</LineNumber>
      <QuantityOrdered>12</QuantityOrdered>
      <PartNumber>3AB32</PartNumber>
      <PartDescription>Blue Suede Shoe</PartDescription>
    </LineItem>
    <LineItem>
      <LineNumber>2</LineNumber>
      <QuantityOrdered>100</QuantityOrdered>
      <PartNumber>46Q64</PartNumber>
      <PartDescription>Shoe Laces 36 inch black</PartDescription>
    </LineItem>
  </DetailInformation>
  <ShippingInstructions>
    <ShipDate>09011999</ShipDate>
    <ShipDetails>Deliver to Door #10</ShipDetails>
    <ShipCancelDate>10011999</ShipCancelDate>
  </ShippingInstructions>
</PurchaseOrder>
```

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DOCKET NO.: 088305/0116

Fig. 5

XML Msg Wizard

Enter the file name of the XML Msg or DTD or Schema

MY-XML-MSG.XML

Browse

☒ Generate Complete Inbound map - XML to Flat-File

☐ Generate Complete Outbound map - Flat-File to XML

☐ None

Enter the map base name

MY-XML-MSG

Browse

☒ Generate Source XML Msg Model

☒ Generate Target XML Msg Model

☐ None

Enter the file name of the output .MDL

Browse

☒ Generate Source XML Flat-File Model

☒ Generate Target XML Flat-File Model

☐ None

Enter the file name of the output .MDL

Browse

☒ Generate Sample Test Data

MY-XML-MSG.TXT

Browse

Cancel

Generate

FIG. 6

Name	Group	Version
GENERATED_MODEL	Group	1.1
XML-Header	Group	1.1
Purchase Order-001	Group	1.1
Header Information	Group	1.1
CompanyInfo	Group	1.1
CompanyAddress	Group	1.1
CompanyCity	Group	1.1
CompanyState	Group	1.1
Detail Information	Group	1.1
Location	Group	1.1
Shipping Instructions	Group	1.1
Ship Date	Group	1.1

Generated Source Model  
C:\TRANDEV\MY-XML-MSG.S.MDL

FIG. 7

Name	Group	Version
GENERATED_MODEL	Group	1.1
XML-Header	Group	1.1
Purchase Order-001	Group	1.1
Header Information	Group	1.1
CompanyInfo	Group	1.1
CompanyAddress	Group	1.1
CompanyCity	Group	1.1
CompanyState	Group	1.1
Detail Information	Group	1.1
Location	Group	1.1
Shipping Instructions	Group	1.1
Ship Date	Group	1.1

Generated Target Model  
C:\TRANDEV\MY-XML-MSG.T.MDL

Title: XML AUTO MAP  
GENERATOR  
Inventor(s): Jeffery R. ECK  
DOCKET NO.: 088305/0116

Fig. 8

The screenshot shows a Windows-style application window titled "C:\TRANDEV\My-XML-Msg.ATT". The window has a menu bar with "File" and "Help". The main area is divided into several sections:

- Data:** Contains "Input" and "Output" text boxes. The Input box contains "C:\Trandev\My-XML-Msg.In" and the Output box contains "C:\Trandev\My-XML-Msg.Out".
- Source:** Contains "Model" and "Access" dropdown menus. The Model dropdown shows "C:\Trandev\My-XML-Msg8.MDL" and the Access dropdown shows "C:\Trandev\XMLAccess.ACC".
- Target:** Contains "Model" and "Access" dropdown menus. The Model dropdown shows "C:\Trandev\My-XML-Msg1.MDL" and the Access dropdown shows "C:\Trandev\Fixed-File.ACC".
- Other Environment Variables:** Features a large empty list box. Below it are "Name" and "Value" input fields, and "Add" and "Delete" buttons.
- Buttons:** "Save" and "Cancel" buttons are located at the bottom of the window.

C:\TRANDEV\MY-XML-MSG.ATT



```
<ELEMENT PurchaseOrder (HeaderInformation,
DetailInformation+, ShippingInstructions)+>
<ELEMENT HeaderInformation
Company/Name, Company/Address, Company/State,
Company/Zip, PurchaseOrderNumber,
PurchaseOrderDate)+>
<ELEMENT DetailInformation (LineItem*)+>
<ELEMENT LineItem (LineNumber, QuantityOrdered,
PartNumber, PartDescription)+>
<ELEMENT ShippingInstructions (ShipDate, ShipDetails,
ShipCancelDate)+>
<ELEMENT CompanyName (#PCDATA)+>
<ELEMENT CompanyAddress (#PCDATA)+>
<ELEMENT CompanyCity (#PCDATA)+>
<ELEMENT CompanyState (#PCDATA)+>
<ELEMENT CompanyZip (#PCDATA)+>
<ELEMENT PurchaseOrderNumber (#PCDATA)+>
<ELEMENT PurchaseOrderDate (#PCDATA)+>
<ELEMENT LineNumber (#PCDATA)+>
<ELEMENT QuantityOrdered (#PCDATA)+>
<ELEMENT PartNumber (#PCDATA)+>
<ELEMENT PartDescription (#PCDATA)+>
<ELEMENT ShipDate (#PCDATA)+>
<ELEMENT ShipDetails (#PCDATA)+>
<ELEMENT ShipCancelDate (#PCDATA)+>
```

**2**

Enter the file name of the input XML DTD

MY-XML-MSG.DTD

Enter the map base name

MY-XML-MSG

- ☒ Generate Complete Inbound map - XML to Flat-File
- ☐ Generate Complete Outbound map - Flat-File to XML
- ☐ None

Enter the file name of the output XML

☒ Generate Source XML Flat-File Model

☒ Generate Target XML Flat-File Model

☒ None

☒ Generate Sample Test Data

MY-XML-MSG.TXT

Generated Target Model  
C:\TRANDEV\MY-XML-MSGT.MDL  
trap once time

- Create fully functional, run-able translation
- Create New Map Component File
- Create Source Inbound XML Message model
- Create Target Flat-File of XML Message model
- Create One-to-One mappings from Source to Target

Create Test Data

- **XML Message Wizard: Outbound**
- Create fully functional, run-able translation
- Create New Map Component File
- Create Source Inbound XML Message model
- Create Target Flat-File of XML Message model
- Create One-to-One mappings from Source to Target
- Create Test Data

Generated ID Code File  
C:\TRANDEV\MY-XML-MSGIDS

Generated Test Data  
C:\TRANDEV\MY-XML-MSGTXT  
map base name

C:\TRANDEV\MY-XML-MSG.ATT

Title: XML AUTO MAP  
GENERATOR  
Inventor(s): Jeffery R. ECK  
DOCKET NO.: 088305/0116

Fig. 9

(Fig. 8)